

RF Exposure Report

Report No.: SA160628C04

FCC ID: KA2CHS165A1

Test Model: DCH-S165

Received Date: Jun. 28, 2016

Test Date: Jul. 04 ~ Jul. 14, 2016

Issued Date: Jul. 19, 2016

Applicant: D-LINK CORPORATION

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Release Control Record

Issue No.	Description	Date Issued
SA160628C04	Original release	Jul. 19, 2016

1 Certificate of Conformity

Product: Wi-Fi Smart Sound Detector

Brand: D-LINK®

Test Model: DCH-S165

Sample Status: Engineering sample

Applicant: D-LINK CORPORATION

Test Date: Jul. 04 ~ Jul. 14, 2016

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 (October 23, 2015)
IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Nadia Wang , **Date:** Jul. 19, 2016
Nadia Wang / Specialist

Approved by : Ken Liu , **Date:** Jul. 19, 2016
Ken Liu / Senior Manager

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
21.50	3.01	20	0.056	1

Directional gain = 0dBi + 10log(2) = 3.01dBi

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